Application:

For detailed admission requirements and how to apply, please visit the Alfaisal University website: http://admissions.alfaisal.edu/en/criteria

For more information please contact:

Tel. No. +966 11 215 7748
Life sciences research is nowadays experiencing a rapid growth and its nature is becoming more and more interdisciplinary. In order to meet the demand in this fast-growing field, Life Sciences Program at Alfaisal University provides a research-oriented degree that will promote an understanding of the fundamental biological processes with emphasis on genetic mechanisms, particularly in relation to human health as well as cross-disciplinary programs that integrate bioinformatics, mathematical modelling, medicinal chemistry and nanotechnology.

The Life Sciences program capitalizes on the expertise of highly accomplished faculty from institutions with established international reputations, such as the University of Hong Kong, University of Tokyo, Wake Forest University, and KAUST.
Our rankings

**RANKED IN TOP 500 GLOBALLY**

Alfaisal University placed #251 - 300 in the world for Life Sciences subject ranking by The 2018 Times Higher Education World University Subject Rankings.

**RANKED 2ND IN ARAB REGION**

Alfaisal University ranked second in Life Sciences in Arab Region by The 2018 Times Higher Education World University Subject Rankings.

**RANKED 2ND IN KINGDOM**

Alfaisal Life Sciences ranked second nationally & one of only three in Kingdom ranked in top 500 globally by The 2018 Times Higher Education World University Subject Rankings.
RESEARCH FOCUSED

In the Life Sciences undergraduate program at Alfaisal University there is a strong emphasis on research in the final year. During this time students gain hands on experience working in molecular biosciences & nanoscience laboratories with high calibre faculty and post-doctoral fellows. As a result students end up publishing papers and obtaining patents with faculty members. Well over 500 papers have been produced in this research area at Alfaisal University in the past 10 years.

The Life Sciences Program at Alfaisal University provides a research-oriented degree that will promote understanding of the fundamental biological processes with emphasis on genetic mechanisms, particularly in relation to human health as well as cross-disciplinary programs that integrate bioinformatics, mathematical modelling, medicinal chemistry, and nanotechnology. While biology remains the centrepiece of the life sciences, technological advances in molecular biology and biotechnology have led to a growing number of specializations and interdisciplinary fields.

STATE-OF-THE-ART FACILITIES

The College of Science offers excellent facilities for both students and staff. We have a number of specialist facilities equipped to cover all disciplines.

The Nano-laboratories are used for teaching undergraduate and graduate students and conducting their graduation projects. They are also used for master students research projects and postdoctoral fellows and researchers in the field of nanotechnology.
**FACTS ABOUT ALFAISAL LIFE SCIENCES GRADUATES**

We continue to respond to the needs of employers, and our graduate employment record has been exceptional.

**EMPLOYABILITY IS OUR GOAL**

Our program provides graduates with skills and knowledge that are of high demand in:

**Leading research centers and institutes**

- Hospital research laboratories
- Government ministries
- Emerging pharmaceutical / Biotechnology industries
- Private research laboratories
- Consulting companies

**Graduates have also continued their education at:**

- King Faisal Specialist Hospital & Research Centre (KFSH&RC)
- King Abdulaziz City for Science and Technology (KACST)
- Prince Sultan Military Medical City (PSMMC)
- Biotech start-ups

**Life Sciences program graduates are employed at:**

- Cancer Biology PhD Program at MD Anderson Cancer Centre (Houston, TX)
- MS in Biotechnology Programs at Colombia University
- University of Edinburgh
- University College London
- King Abdullah University of Science and Technology (KAUST)
## Curriculum & Study Plan

### Year 1
- Calculus I & II
- General Biology I & II
- General Chemistry I & II
- Arabic Language I & II
- Introduction to Computer
- Science Freshmen English I & II
- Humanity Course Elective

### Year 2
- Probability & Statistics
- Organic Chemistry I & II
- Islamic Studies I & II
- Electromagn. & Optics for LS
- Human Physiology & Anatomy
- Microbiology
- Analytical Chemistry

### Year 3
- Molecular Biology I & II
- Biochemistry I & II
- Programming I
- Sci. Electives
- Instrumental Analysis

### Year 4
- Life Sci. Research Project
- Life Sci. Special Topics
- Life Sci. Research Seminar

**Electives:**
- Medicinal Chemistry, Environmental Chemistry, Immunology, Cancer Biology,
- Signal Transduction, Human Genetics, Bioinformatics

**Special Topics:**
- Epigenetics, Nanotechnology, Biotechnology